DART AEROSPACE LTD	Work Order:	24147	
Description: Wearshoe	Part Number:	D2656-13	
Drawing: D2656 Rev. Z	Qtv:	50	
Diaming: 22000 No. 12	Qty.	Page 1 of 1	

Step	Location	Procedure	Ву	Date	Qty
1	DC	Issue Traveller	,,	0509.02	ŞÞ
		Dwg not required	le	970702	4
, 2	PG	Issue P/O:			
ľ		Email or ship DXF file to vendor			80
		Laser Cut per Dwg D2656 flat pattern D2656-13	u,	5.0002	4
		Material release note required		130102	
3	RG	Receive and Inspect for transit damage	1.0		
		Ensure the material note is attached	Cal	5/09/20	50
4	QC6	Inspect dimensions per template D2656-13T1		1	49
			1	8-111-10	523
5	GB	Deburr if necessary	A	2 1	
		·		NA	u
6	GB	Form on Brake as per Dwg D2656 using Jigs DT8261	= 1	1 1 -	10
•		and DT8326	SB	05/11/18	47
7	GB	Form joggle as per Dwg D2656 using Jig DT8158	50		
		Identify as D2656-13	$\supset B$	h5/11/18	49
8	QC5	Inspect work to Step 7		40	عدر ا
				a-10-01	42
9	FP	Powder Coat Grey (RAL-7012) (Ref. 4.3.5.5) per QSI 005 4.3	10	051221	ua
			1	03/00/	77
10	QC3	Inspect Powder Coat	mi		119
			411/	27991	71
11	FP	Identify and Stock	m		10
		,	<u> </u>	05 ld d1	7/
12	AC		11/	051172	49
		Cost / part:	100		101
13	DC	Close W/O	MX	20/12/97	19
		Inspect Level 21	W	03/14/0	1,/
		<u></u>		1 '	
Dave	Doto	Change	oviced b	D. (   Ammen	

Rev	Date	Change 🐇	Revised By	Approved
В	99.03.16	Re-format@	DM	
С	00.11.01	Removed P/O for Powder Coat – in house process	EC	
, D	01.04.10	In house process	EC	
E	01.06.26	Added step 2 to 4, added inspection level 21	EC	J
F	02:10.25	Re-format	KJ RF	18:



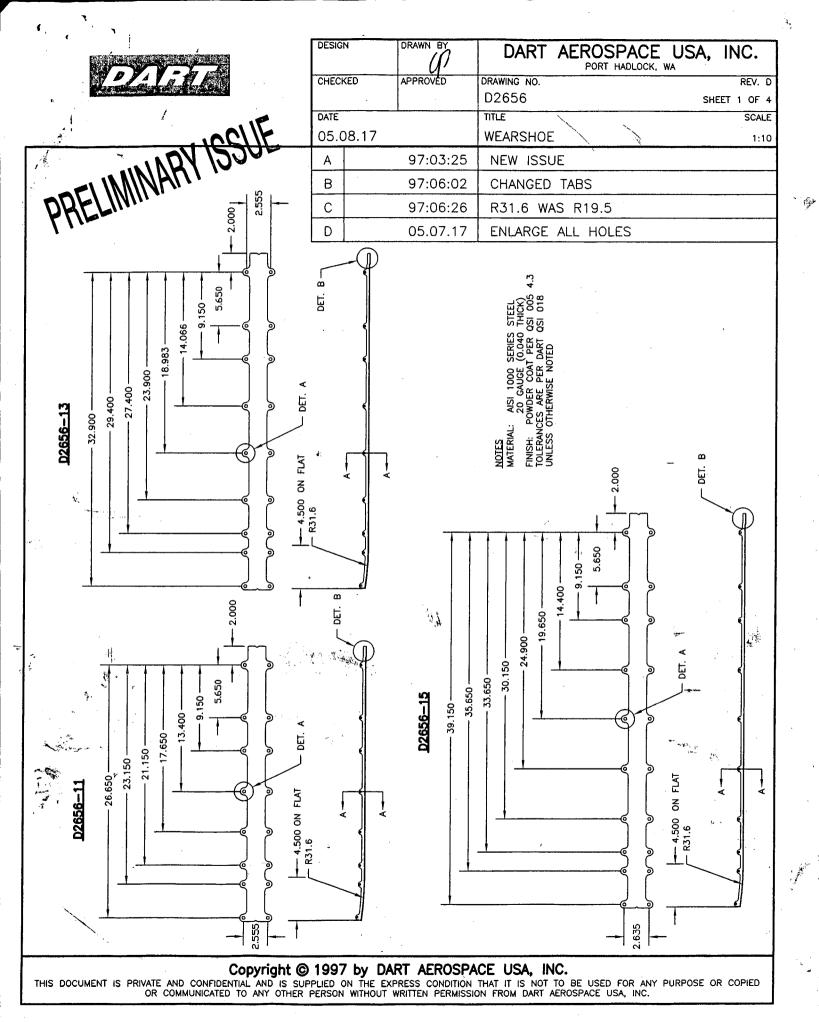
PIC

W/O:	•	WORK ORDER C	HANGES					· · · · · · · · · · · · · · · · · · ·
DATE	STEP	PROCEDURE CHANGE		Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
05.11.70	4	TOOK J: In template. (New clesign.		1	15-11-110	/	h	02-11-10
						g	**************************************	

NCR:		V	ORK ORD	ER NON-CONFO	RMANCE (NCR)					
		Description of NC		Corrective Action	Section B		Verification	Approval	Approval	
DATE	STEP	Section A	Initial Action Descript Design Mgr Design Mgr		tion Sign & Date		Section C	Approval Design Mgr	Approval QC Inspector	
	·									
•										
	•						,			
									-	
	<u> </u>			····	<del>                                     </del>	1				

Part No:	PAR #:	Fault Category:	CR:	Yes No <b>DQA</b> :	Date:
NOTE: Date & initial all entries				QA: N/C Closed:	Date:

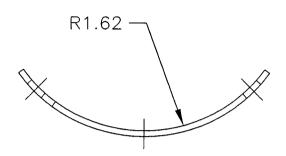
H:\forms\Quality Assurance\approved forms\NCRWO revC



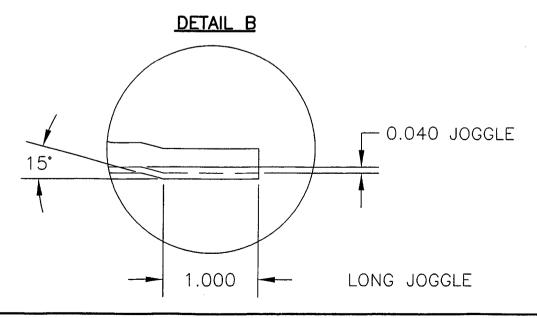


DESIGN	DRAWN BY	DART AE	ROSPACE USA PORT HADLOCK, WA	, INC.
CHECKED	APPROVED	DRAWING NO. D2656		REV. D
DATE		TITLE	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	SHEET 4 OF 4
05.08.17		WEARSHOE		1:10

# SECTION A-A



# **DETAIL A** - 0.300 R0.110 -R0.375 R0.375 0.286



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#### Job Costing Report

Dart Aerospace Ltd.

Sep 01, 2005 10:48 am

Hawkesbury

Work Order No

: 0024147 Department Code:

Project Name : D2656-13 Project For : WK537 Burden Flags : NNNNNNN WO Status : Open

Work Order Type : Main Main WO Number : Invoice State : Not Invoiced

Invoice Date : House Part Number: D2656-13 Invoice Number : Description : Wearplate

Invoice Amount : 0.00 Manufactured : Yes

Amount Req'd: 50

Amount Done : 0
Start Date : 08-29-05 Order Entry No :

0.00 OE Value : Start Date

Est Finish Date : 09-16-05 Act Finish Date : Est Mark Up : 0.000%

Actual Mark Up : 0.000% Drawings Reqd : No Ok for Approval :

\$0 Posted to Finished Goods Approval Rec'd :

		Estimated	Actual	Var. %	Posted	To Post	
Material Cost	:	0.00	0.00	0.00	0.00	0.00	==
Engineering Hours	:	0.00	0.00	0.00			
Engineering Cost	:	0.00	0.00	0.00	0.00	0.00	
Production Hours	:	0.00	0.00	0.00			
Production Cost	:	0.00	0.00	0.00	0.00	0.00	
Packaging Hours	:	0.00	0.00	0.00			
Packaging Cost	:	0.00	0.00	0.00	0.00	0.00	
OverHead Hours	:	0.00	0.00	0.00			
OverHead Cost	:	0.00	0.00	0.00	0.00	0.00	
CNC Hours	:	0.00	0.00	0.00			
CNC	:	0.00	0.00	0.00	0.00	0.00	
Misc. Hours	:	0.00	0.00	0.00	•		
Misc.	:	0.00	0.00	0.00	0.00	0.00	
			========	======			
Burden	:	0.00	0.00	0.00			
		=======	=======	======			
Total Cost	:	0.00	0.00	0.00			
Mark up	:	0.000	0.000				
Selling Cost	:	0.00	0.00				

		Estimated	Actual
Labour Hrs/Amount Done	:	0.00	0.00
Profits/(Loss)	:	0.00	0.00



New Zealand Steel Limited Girethrook, South Auckland Postati: Private Bag 92121, Auckland, New Zealand Telephones: (09) 375 8999 / 375 8111 Auckland (09) 235 8089 / 235 3535 Waiuku Fasr: (09) 375 8050

# TEST CERTIFICATE

£ 5005/21120

		rax: (ub) 375 8359		\ Ref: 5005/21:
CUSTOMER	Wilkinson	P410070 TOO 2 SPECIFICATION ASTMA1008 CS Type A		, j
CUSTOMER ON	90-21N-288	AND A VALUE OF THE PROPERTY OF	CERTIFICATE	No TC107796
WILL O/N	453665		PAGE	l of 1
		DMENSIONS 9,033" × 48" × Coll	DATE	31 March 2005
PACK NUMBER		C Si Mn P S Cu Ni Cr Mo White Annual Tests (Test specification - /	ASTMA370	
â	HEAT No	x100 X 100 NB TI AI B N2 CE( ) BEND YIELD T.S. %ELONG HARDNESS	1 -	NGTH
R9-455932-00	640077	5 TR 20 10 16 14 17 18 1 6 2 1 C		(feet)
9-455933-00	640077	5 TR 20 10 16 14 17 18 1 2 1	14	2621
9-455934-00	640077	5 TR 20 10 16 14 17 18 1 6 1 1 Good Good	14	2723
R9-455935-00	640077	5   1R   20   10   16   14   17   18   1   6   1   1	1 (	2546
and the second of the second o		50		2789

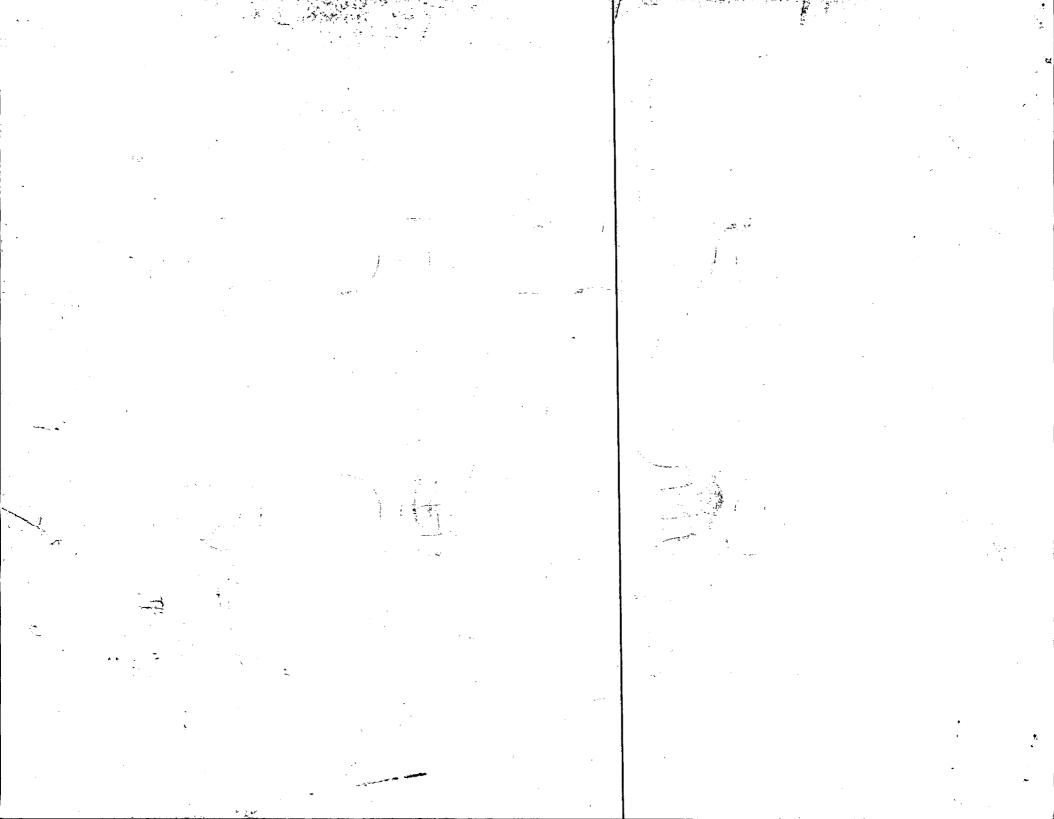
YIELD . (A)=0.2% PROOF STRESS (B)=LOWER YIELD STRESS	GAUGE LENGTH (G.L.) (A)=200mm (C)=80mm (E)=2" (B)=50mm (D)=5.65? So (F)=8"	(A)=r0 (C)=r45 (A	Tomm X TUMM	CARBON EQUIVALENT VALUE (CE) (A)=C+Mn/6 (B)=C+Mn/6+(Cr+V+Mo)/5+(Cu+Ni)/15	(0) 0.11 m
--	--	-------------------	-------------	---	------------

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND INSPECTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION

APPROVED Satish Missa OC METALLURGIST

20 GA CRMS

0014-1 T M TAINITEMBIAI / PASSAGE T T



Date:

Thursday, 11/17/2005 12:08:25 PM

User:

Linda Lacelle

# **Process Sheet**

Customer Job Number : CU-DAR001 Dart Helicopters Services

: 24147

**Estimate Number** 

: 10314

P.O. Number

Prsht Rev.

First Issue

Written By

**Previous Run** 

This Issue

: 11/17/2005

: NC

: //

Type

S.O. No. :

: PURCHASED PARTS

: 24147

: Est:

02.10.25 Re-format KJ/RF

**Part Number** 

**Drawing Name** 

: D265613

**Drawing Number** 

: D2656 REV D

: WEARSHOE

**Project Number** 

: D **Drawing Revision** 

Material

**Due Date** 

: 11/24/2005

Qty:

50 Um:

Each

Comment **Additional Product** 

Checked & Approved By



Seq. #:

1.0

**Machine Or Operation:** 

PG

**PURCHASING** 

Description:

**Comment: PURCHASING** 

Issue P/O:

1-Email or ship DXF file to vendor

2-Laser Cut per Dwg D2656 flat pattern D2656-13

3-Material release note required

2.0

D265613F

Wearplate

3.0 PACKAGING 1

PACKAGING RESOURCE #1



**Comment: PACKAGING RESOURCE #1** 

Receive & Inspect For Transit Damage Ensure material release note is attached

4.0

QC6

DIMENSIONAL CHECK



Comment: DIMENSIONAL CHECK

Inspect dimensions per template D2656-13T1

5.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1





Comment: SMALL & MEDIUM FAB RESOURCE 1

Deburr if necessary.

6.0

BRAKE NC

NC BRAKE



Comment: NC BRAKE

1-Form on Brake as per Dwg D2656 using Jigs DT8261and DT8326

2-Form joggle as per Dwg D2656 using Jig DT8158Identify as D2656-13

Date: User: Thursday, 11/17/2005 12:08:25 PM

Linda Lacelle

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: WEARSHOE

Job Number: 24147

Part Number: D265613

Job Number:



Seq. #:

**Machine Or Operation:** 

Description:

7.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

8.0

POWDER COATING

POWDER COATING



Comment: POWDER COATING

QC3

Powder Coat Grey Sandtex (Ref: 4.3.5.6) as per QSI 005 4.3

9.0

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

10.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location:\_

11.0 DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

Job Completion



		· •
		3
		n 1
		· · · · · · · · · · · · · · · · · · ·
		•

### Job Costing Report

Dart Aerospace Lt Hawkesbury		ob costing k	oporo	Nov 08 11:05	
Work Order No Project Name Project For Work Order Type Main WO Number House Part Number Description : W Manufactured : Y Amount Req'd : Amount Done : Start Date Est Finish Date Act Finish Date Drawings Reqd Ok for Approval Approval Rec'd	earplate es 50 0 : 08-29-05		Department Coor Burden Flags WO Status Invoice State Invoice Date Invoice Number Invoice Amount Order Entry No OE Value Est Margin Actual Margin	: NNNNN : Open : Not I : : : : : : : : : : : : : : : : : : :	nvoiced  0.00  0.00  0.00  000%
	Estimated	Actual		Posted	To Post
material Cost	: 0.00	548.80	100.00	0.00	548.80
					340.00
Engineering Hours	: / 0.00	0.00		0.00	540.00
Engineering Hours Engineering Cost	: 0.00		0.00	0.00	**
		0.00	0.00	0.00	
Engineering Cost	: 0.00	0.00	0.00		0.00
Engineering Cost Production Hours	: 0.00 : 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00	**
Engineering Cost Production Hours Production Cost	: 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00	0.00
Engineering Cost Production Hours Production Cost Packaging Hours	: 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00	0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost	: 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00	0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours	: 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00	0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours OverHead Cost	: 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours OverHead Cost CNC Hours	: 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00	0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours OverHead Cost CNC Hours CNC Misc. Hours	: 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours OverHead Cost CNC Hours CNC	: 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours OverHead Cost CNC Hours CNC Misc. Hours	: 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours OverHead Cost CNC Hours CNC Misc. Hours Misc. Burden	: 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours OverHead Cost CNC Hours CNC Misc. Hours Misc. Burden Total Cost	: 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours OverHead Cost CNC Hours CNC Misc. Hours Misc. Burden Total Cost Margin	: 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Engineering Cost Production Hours Production Cost Packaging Hours Packaging Cost OverHead Hours OverHead Cost CNC Hours CNC Misc. Hours Misc. Burden Total Cost	: 0.00 : 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00

Actual

0.00

-548.80)

Estimated

0.00

0.00

Labour Hrs/Amount Done : Profits/(Loss) :